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SOUR	CE	peral pescription Of NOT CHRULATE	,
	Gen	neral Description UNIO UNIO UNIO UNIO	
	1.	The designers of Zlin-281 claim it represents the highest de	
	,	ment in construction and design in the field of training and planes. A high degree of safety permits elementary training well as acrobatic training with dual control, and special acrowth one person.	. 88
		planes. A high degree of safety permits elementary training well as acrobatic training with dual control, and applied acr	, as robat rning t the 200 k
	2.	planes. A high degree of safety permits elementary training well as acrobatic training with dual control, and special acrowth one person.  With loss of speed the plane behaves quietly, gives prior was and doesn't fall on one wing. It comes out of a spin without pilot's help. Comfortable control, good visibility and a larrange at a cruising speed of 190-200 km/hr, make this suitable.	robat robat rning t the 200 k le the uring the
	• .	planes. A high degree of safety permits elementary training well as acrobatic training with dual control, and special acrowith one person.  With loss of speed the plans behaves quietly, gives prior was and doesn't fall on one wing. It comes out of a spin without pilot's help. Comfortable control, good visibility and a lirange at a cruising speed of 190-200 km/hr, make this suitable plane for tourist purposes.  Zlin-281 is equipped with mechanical brakes, blocking skid whending flaps and an attachment for longitudinal training of plane in flight. Seats and pedal controls can be adjusted deflight. A great advantage is the excellent visibility from	robation and the control of the cont

4. The wings are of wood and consist of an inversectional main spar and an auxiliary front spar. The leading edge is ply-covered up to the rear spar; the remainder is fabric-covered. The wing's hinges are forgings, connected with the spar by scrows and Heinemetalwood. The rear spar is connected with the central part of the fuselage by a vertical pivot, and the front spar by two horizontal pivots. The zilerons, made of fabric-covered wood, are statically and derodynamically balanced. There is a compensation tab on the trailing edge. Landing flaps are metal and hinged to the auxiliary spar.

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- 5. Tail Plane: The veneered wood cantilever stabilizers are fitted to the fuselage in three places. The elevator is fabric-covered wood with a plycovered leading edge. It is aerodynamically and statically balanced and has a controlling tab on the left side. The fin is veneered wood. The rudder is fabric-covered wood and is balanced statically and aerodynamically. On the trailing edge is a compensation tab.
- 6. The Undercarriage is self-carrying and fixed. The shock absorber system consists of spiral springs and an cil cylinder. The turnable tail skid's movements can be related with the movements of the rudder.
- 7. Control: The plane has duel control with cables and profile wiring operating the control units. The right rudder bar is removable. Foot pedal control is provided by a lever on the panel board.
- Engine: The plane's four-cylinder Toma h engine has a maximum capacity of 105 hp at 2,550 rpm and is started by hand. The ongine bed has two carriers attached to the fuselage with four vertical pivots. The ongine rests on four rubber mountings that absorb vibration. Its cowling has adjustable side covers which provide easy access to the engine and installation. The 120-liter fuel tank, made of aluminum tin, is mounted behind the seats. A pneumatic fuel indicator is on the panel board. The oil tank, of about 3 liter capacity, is mounted on the engine.

## 9. Equipment

The plane's equipment includes:

	For Blind	For training in Blind Flying
rpm Indicator	1	1
Combined thermometer & oil gauge	ī	Ť
Fuel pressure gauge	· ī	ī
Fuel indicator	ĩ	ī
Pump for fuel indicator	ī	î
ressure pump	ĩ	ī
Tachometer	ī	2
Altimeter (landing)	1	2
Compass	1	2 2
Turn and bank indicator	1	2
Variometer with bottle	1	2
Engine switch	1	1
artificial horizon - only on request	1	1
ritot static tube	1	1
Fire extinguisher	1	1
Set of tools for seructure	1 .	1
Set of tools for engine	1	. <b>1</b>
Upholstered seat cushions	2	2 2
Upholstered back cushions	2	Ź
hub of the ritot static tube	1	1
Propeller hub	1	1
First aid box	1	1
Roller blind	-	, 1
Electric accessories:		
accumulator	1	. 1
Panel board lighting	ī	า้
Navigator lights	3	3
Control lamp for warming up of Pitot	•	•
static tube	1	1
Switches	<b>1</b> 5	1 5
Searchlight	í	į

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10.00 h 7.03 h 2.95 h 2.90 h ding apan Longth Height whicel track thould 13.50 13 Wing area

Dihedral ر آه Incidence Rudders Nevators -Thro dimensions,

1.65 m<sup>2</sup> 1,65 cm x 165 cm

Landing flags

2.20 1.2

undercarriage Skid tire dimension 260 cm x 85 cm

Performance

Maximum opend (the set level) 210 km/hr Cruising speak. 190 lon/bir

Rube of clara (the selection) 2.0m/sec (Nobe: In the original Czech this figure "\$" was very indistinct.

It could be a "0".)

Service ceiling Craising range at areasing - cpead

5,600 m 1.,200 lam

, Dark Onpecity

Fuel bank Oil tank

120 liters 8 liters

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